beyma

PROFESSIONAL LOUDSPEAKERS

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5P200Fe

LOW & MID FREQUENCY TRANSDUCER

P200 Series

KEY FEATURES

- Program power: 300 W
- Sensitivity: 92 dB (1W / 1m)
- FEA optimized ferrite magnetic circuit
- Weatherproof paper cone and Santoprene™ surround
- Shorting cap for extended response and low harmonic distortion
- Extended controlled displacement: X_{max} ± 5,7 mm
- 16 mm peak-to-peak excursion before damage





TECHNICAL SPECIFICATIONS

Nominal diameter	125 mm	5 in
Rated impedance		8 Ω
Minimum impedance		6,7 Ω
Power capacity*		150 W_{AES}
Program power		300 W
Sensitivity	92 dB	1W / 1m @ Z_N
Frequency range		70 - 10.000 Hz
Recom. enclosure. vol.	4 / 10 l	0,14 / 0,35 ft^3
Voice coil diameter	38,1 mm	1,5 in
Bl factor		8,5 N/A
Moving mass		0,010 kg
Voice coil length		14 mm
Air gap height		6 mm
X_{damage} (peak to peak)		16 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	72 Hz
D.C. Voice coil resistance, R_e	5,2 Ω
Mechanical Quality Factor, Q_{ms}	7,5
Electrical Quality Factor, Q_{es}	0,35
Total Quality Factor, Q_{ts}	0,33
Equivalent Air Volume to C_{ms}, V_{as}	5,7 l
Mechanical Compliance, C_{ms}	451 µm / N
Mechanical Resistance, R_{ms}	0,65 kg / s
Efficiency, η_0	0,6 %
Effective Surface Area, S_d	0,0095 m^2
Maximum Displacement, X_{max} * **	5,7 mm
Displacement Volume, V_d	49 cm^3
Voice Coil Inductance, L_e @ 1 kHz	0,6 mH

Notes:

* The power capaticty is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

*** The X_{max} is calculated as $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$, where L_{vc} is the voice coil length and H_{ag} is the air gap height.

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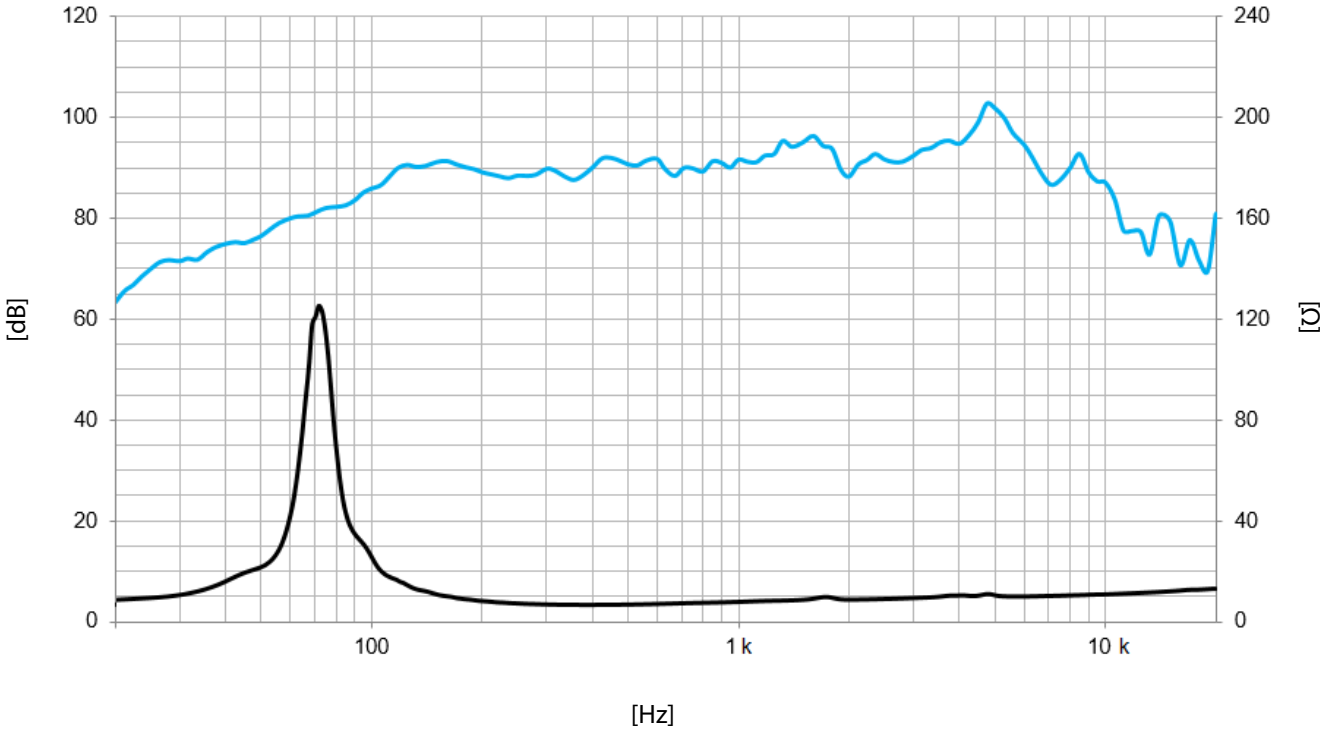
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Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	155 mm	6,1 in
Bolt circle diameter	141,5 mm	5,6 in
Baffle cutout diameter:		
- Front mount	120 mm	4,7 in
Depth	80 mm	3,1 in
Volume displaced by driver	0,5 l	0,02 ft³
Net weight	2,2 kg	4,8 lb
Shipping weight	2,3 kg	5,1 lb

DIMENSION DRAWING

